

a' 1. (Amended) An anti-deflagrating operating actuator, integrally protected against deflagration and having an external protection housing that is formed in a shape that outlines internal parts of the actuator, said actuator comprising:

a motor connected to an electric power source;

a gear reducer connecting at least one of an external drive device and the motor, wherein the gear reducer performs one of linear motion transmission or angular motion transmission;

a plurality of outlets for connecting external controls and the electric voltage;

wherein the outlets are positioned so that wiring may avoid kinking, stretching, and impairment of wiring resistance, and

wherein an area of free volume adjacent to brackets supporting the motor is uniform.

4. (Amended) The anti-deflagrating operating actuator according to claim 1, wherein the outlets for connecting external controls are located in ergonomic positions on the external housing and connect mechanical parts that transmit mechanical power to the gear reducer.

6. (Amended) The anti-deflagrating operating actuator according to claim 1, wherein the angular motion transmission of the gear reducer is direct.

7. (Amended) The anti-deflagrating operating actuator according to claim 1, wherein one end of an electric connection cable is secured to the external housing through a cable-pressing device having a securing mechanism and an anti-deflagrating operating ring nut.

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a' amended.

8. (Amended) The anti-deflagrating operating actuator according to claim 7, wherein another end of the electric connection cable connects the actuator to at least one switch that is contained in a metallic tear-preventing sheath reinforced with PVC and having a mechanical seal.

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12. (New) The anti-deflagrating operating actuator according to claim 1, wherein the external housing further comprises:

an upper half shell; and

a lower half shell.

13. (New) The anti-deflagrating operating actuator according to claim 12, wherein the upper half shell includes a flange and the lower half shell includes a cylindrical mantle and a circular plug.

14. (New) The anti-deflagrating operating actuator according to claim 13 wherein a first threaded coupling having left-handed threading is located between the cylindrical mantle and the flange; and

a second threaded coupling having right-handed threading is located between the cylindrical mantle and the circular plug.

15. (New) The anti-deflagrating operating actuator according to claim 1, wherein the area of free volume is uniform because the area increases in size or is filled with dense material.

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IN THE ABSTRACT:

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